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#2

OIPE

RAW SEQUENCE LISTING

DATE: 01/15/2002

PATENT APPLICATION: US/10/021,718

TIME: 17:59:03

Input Set : A:\00-74.seq.txt

Output Set: N:\CRF3\01152002\J021718.raw

ENTERED

3 <110> APPLICANT: Sheppard, Paul O.

4 Bishop, Paul D.

6 <120> TITLE OF INVENTION: Human Seleno-cysteine Containing Protein

7 Zsell

9 <130> FILE REFERENCE: 00-74

OK 11 <140> CURRENT APPLICATION NUMBER: US/10/021,718

11 <141> CURRENT FILING DATE: 2001-12-12

11 <150> PRIOR APPLICATION NUMBER: 60/256,685

12 <151> PRIOR FILING DATE: 2000-12-18

14 <160> NUMBER OF SEQ ID NOS: 4

16 <170> SOFTWARE: FastSEQ for Windows Version 4.0

18 <210> SEQ ID NO: 1

19 <211> LENGTH: 443

20 <212> TYPE: DNA

21 <213> ORGANISM: Homo sapiens

23 <220> FEATURE:

24 <221> NAME/KEY: misc_feature

25 <222> LOCATION: 443

26 <223> OTHER INFORMATION: n = A,T,C or G

28 <400> SEQUENCE: 1

29 gagcctcctg ttgcctccgc tggcgctgct gctgcttctc gcggcgcttg tggccccagc 60
 30 cacagccgcc actgcctacc ggcgggactg gaaccgtctg agcggcctaa cccgcgcccg 120
 31 ggtagagacc tgcgggggat gacagctgaa ccgcctaaag gaggtgaagg ctttcgtcac 180
 32 gcaggacatt ccattctatc acaacctggt gatgaaacac ctccctgggg ccgaccctga 240
 33 gctcgtgctg ctggggccgcc gctacgagga actagagcgc atcccactca gtgaaatgac 300
 34 ccgcgaagag atcaatgcgc tagtgcagga gctcggtctc taccgcaagg cggcgcccga 360
 35 cgcgcagggtg ccccccgagt acgtgtgggc gccgcggaag cccccagagg aaacttcgga 420
 OK 36 ccacgctgac ctgtaggtcc ggn 443

38 <210> SEQ ID NO: 2

39 <211> LENGTH: 145

40 <212> TYPE: PRT

41 <213> ORGANISM: Homo sapiens

43 <220> FEATURE:

44 <221> NAME/KEY: VARIANT

45 <222> LOCATION: (48)...(48)

46 <223> OTHER INFORMATION: Xaa is selenocysteine.

48 <400> SEQUENCE: 2

49 Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Ala Ala

50 1 5 10 15

51 Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn

52 20 25 30

OK 53 Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly Xaa

54 35 40 45

55 Gln Leu Asn Arg Leu Lys Glu Val Lys Ala Phe Val Thr Gln Asp Ile

56 50 55 60

57 Pro Phe Tyr His Asn Leu Val Met Lys His Leu Pro Gly Ala Asp Pro

58 65 70 75 80

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59 Glu Leu Val Leu Leu Gly Arg Arg Tyr Glu Glu Leu Glu Arg Ile Pro
60 85 90 95
61 Leu Ser Glu Met Thr Arg Glu Glu Ile Asn Ala Leu Val Gln Glu Leu
62 100 105 110
63 Gly Phe Tyr Arg Lys Ala Ala Pro Asp Ala Gln Val Pro Glu Tyr
64 115 120 125
65 Val Trp Ala Pro Ala Lys Pro Pro Glu Glu Thr Ser Asp His Ala Asp
66 130 135 140

67 Leu

68 145

71 <210> SEQ ID NO: 3

72 <211> LENGTH: 435

73 <212> TYPE: DNA

74 <213> ORGANISM: Artificial Sequence

76 <220> FEATURE:

77 <223> OTHER INFORMATION: This degenerate nucleotide sequence encodes the
78 amino acid sequence of SEQ ID NO:2.

80 <221> NAME/KEY: misc_feature

81 <222> LOCATION: 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48,

82 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 84, 87, 99, 102,

83 105, 108, 111, 114, 117, 120, 123, 126, 132, 138, 141, 142,

84 143, 144, 150, 156, 159, 168, 174, 180, 183, 195, 210, 213

85 <223> OTHER INFORMATION: n = A,T,C or G

87 <221> NAME/KEY: misc_feature

88 <222> LOCATION: 225, 228, 231, 234, 240, 246, 249, 252, 255, 258, 261, 264,

89 276, 282, 288, 291, 294, 303, 306, 321, 324, 327, 336, 339,

90 348, 354, 357, 360, 366, 372, 375, 378, 387, 393, 396, 399,

91 405, 408, 417, 420, 429, 435

92 <223> OTHER INFORMATION: n = A,T,C or G

94 <400> SEQUENCE: 3

W--> 95 atgwsnytny tnytnccncc nytnngcnytn ytnytnytny tngcngcnyt ngtnngcncn 60

W--> 96 gcnacngcng cnacngenta ymgncngay tggaaymgny tnwsnggny ncnmgngcn 120

W--> 97 mgngtngara cntgyggngg nnnncarytn aaymgnytna argargtnaa rgcnttygtn 180

W--> 98 acncargaya thcnnttyta ycayaaytn gtnatgaarc ayytnccngg ngcngayccn 240

W--> 99 garytngtny tnytnngnmg nmngntaygar garytngarm gnathccny nwsngaratg 300

W--> 100 acnmngngarg arathaaygc nytngtncar garytngnt tytaymgnaa rgcngcncn 360

W--> 101 gaygncarg tncncncga rtaygtntgg gncncngcna arccncnga rgaracnwn 420

W--> 102 gaycaygng ayytn 435

104 <210> SEQ ID NO: 4

105 <211> LENGTH: 48

106 <212> TYPE: DNA

107 <213> ORGANISM: Artificial Sequence

109 <220> FEATURE:

110 <223> OTHER INFORMATION: Selenocysteine insertion motif.

112 <221> NAME/KEY: variation

113 <222> LOCATION: (5)...(14)

114 <223> OTHER INFORMATION: N is A, T, G, or C.

116 <221> NAME/KEY: variation

117 <222> LOCATION: (15)...(16)

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Input Set : A:\00-74.seq.txt

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118 <223> OTHER INFORMATION: N is A, T, G, C, or absent.
120 <221> NAME/KEY: variation
121 <222> LOCATION: (19)...(34)
122 <223> OTHER INFORMATION: N is A, T, G, or C.
124 <221> NAME/KEY: variation
125 <222> LOCATION: (35)...(44)
126 <223> OTHER INFORMATION: N is A, T, G, C, or absent.
128 <221> NAME/KEY: variation
129 <222> LOCATION: (45)...(45)
130 <223> OTHER INFORMATION: N is A, T, G, or C.
132 <221> NAME/KEY: variation
133 <222> LOCATION: (48)...(48)
134 <223> OTHER INFORMATION: N is A, T, G, or C.
136 <400> SEQUENCE: 4

137 augannnnnn nnnnnhann nnnnnnnnnn nnnnnnnnnn nnnnnngan

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VERIFICATION SUMMARY

DATE: 01/15/2002

PATENT APPLICATION: US/10/021,718

TIME: 17:59:04

Input Set : A:\00-74.seq.txt

Output Set: N:\CRF3\01152002\J021718.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4